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637 A sprocket for engaging a power transmission chain with offset series of drive links and guide links is disclosed. The sprocket has teeth that extend radially outwardly at the periphery of the sprocket that support a chain engaging the sprocket. The sprocket teeth are separated from adjacent teeth by a distance that is approximately the length of the links of the chain. A power transmission chain is disclosed that has rows of pivotally connected, interleaved drive links and guide links. One guide link is included in each row of links and the guide links are positioned on alternate lateral sides of the chain by each row.